

SmartOnline 80kVA Modular 3-Phase UPS System, On-line Double-Conversion International UPS (expandable to 120kVA)

MODEL NUMBER: SU80KX2





Description

Tripp Lite SU80KX2 80kVA SmartOnline Modular 3-Phase Intelligent, True On-Line Double-Conversion UPS System provides 100% system availability with N+1 modular architecture and parallel capability. In N+1 configurations, SU80KX2 provides 4 self-contained, redundant 20kVA power modules that support hot-swappable maintenance as connected equipment remains powered. Two open slots for up to two additional 20kVA power modules offers increased capacity upgrades to 120kVA. In parallel applications, configured and installed by a Tripp Lite authorized technician, up to 4 SU80KX2 models can be connected to provide fail-safe

Highlights

- 80kVA / 80,000VA / 64,000W on-line double-conversion 3 phase UPS
- 3 phase 220/380V, 230/400V, 240/415V 4-wire + ground wye input & output
- Scalable design grows as your datacenter grows
- Modular N+1 redundant architecture helps assure 100% availability
- Parallel up to 4 UPS systems for redundancy or increased capacity
- IGBT & DSP technology produce
 4% input harmonic distiortion
 (THDi)
- Hot swappable power modules,
 Expandable runtime

Package Includes

- SU80KX2 UPS System
- PowerAlert Software
- Parallel communication cable
- Instruction manual
- Warranty information

redundancy (two 80kVA models supporting up to 80kVA total load) or increased capacity (two 80kVA models supporting up to 160kVA total load). Large capacity 80,000VA / 64,000W UPS continually converts incoming AC power into filtered DC and resynthesizes output into perfectly regulated continuous sine wave AC output with less than 3% THD. Zero transfer time assures compatibility with all equipment types. High input power factor, advanced IGBT inverter and Digital Signal Processor (DSP) technology produce less than 4% input total harmonic distortion (THDi). With low THDi, generators run cooler and last longer, allowing managers to save installation costs by installing a generator with a capacity equal to the equipment load (1:1 ratio). Up to 97% efficiency in optional economy mode reduces operating costs and BTU output. Hardwire input and output connections support a variety of permanent or PDU power connections. Frequency is 50 or 60 Hz (auto-selectable). SU80KX2 power modules are housed in a single small-footprint tower compartment. Compatible battery pack models BP480V55, BP480V78, BP480V103 and BP480V140 (sold separately) are housed in a separate stand-alone hardwired external battery compartment. Battery runtime can be extended with additional stand-alone hardwired external battery modules. A manual bypass breaker and an automatic bypass function ensure 100% availability of connected equipment by safely passing through AC power if the UPS requires maintenance.

Features

- True On-Line Double-Conversion 80kVA / 80,000VA / 64kW / 64,000 watt SmartOnline Modular 3-Phase Intelligent UPS provides 100% system availability
- Scalable, modular N+1 configurations support hot-swap replacement of any of the four self-contained 20kVA power modules while connected equipment remains powered
- Two open slots accommodate up to two additional 20kVA power modules for increased capacity up to 120kVA
- Parallel applications enable the connection of 2, 3 or 4 SU80KX2 models in parallel to enable advanced configurations for fail-safe redundancy, increased



capacity and combinations of the two (all parallel installations must be performed by a Tripp Lite authorized technician)

- Full-time sine wave output with less than 3% output THD
- · High input power factor, advanced IGBT inverter technology and Digital Signal Processor (DSP) technology produce low input THD (THDi)
- Less than 4% input THD (THDi) reduces installation costs by allowing 1:1 generator sizing
- Extremely efficient operation (up to 97%) saves energy and reduces BTU output
- Maintains continuous operation with zero transfer time through blackouts, voltage fluctuations and surges
- · Removes harmonic distortion, electrical impulses, frequency variations and other hard-to-solve power problems
- Wide input voltage correction range: 173-300V / 276-477V AC
- Precision +/-1% output voltage regulation
- 4 available battery modules (BP480V55, BP480V78, BP480V103 and BP480V140) are housed in a separate, stand-alone hardwired external battery compartment (Battery modules sold separately)
- Front panel combination LCD/LED display includes a real-time event log screen with up to 500 events listed
- Dynamic battery management screen optimizes battery function to lengthen service life and allow cold restart of the UPS
- Built-in RS-232 communication port works with included PowerAlert Software to provide shutdown commands and reporting on a single server
- · Accessory slot accepts an optional internal SNMPWEBCARD and MODBUSCARD accessory options
- Emergency Power Off button turns UPS output OFF and disables Bypass output
- Built-in Emergency Power Off (EPO) dry-contact interface supports remote emergency shutdown in large facilities

Specifications

ОИТРИТ	
Output Capacity Details	Two open power module slots enable installation of up to two additional 20kVA power modules for increased capacity to 120kVA (authorized technician required)
Output Volt Amp Capacity (VA)	80000
Output kVA Capacity (kVA)	80
Output Watt Capacity (Watts)	64000
Output kW Capacity (kW)	64
Power Factor	0.8
Crest Factor	3:1
Nominal Output Voltage(s) Supported	220/380V; 230/400V; 240/415V; 3-Phase Wye
Nominal Voltage Details	Less than 3% output THD
Frequency Compatibility	50 / 60 Hz
Output Voltage Regulation (Line Mode)	+/- 1%
Output Voltage Regulation (Battery Mode)	+/- 1%
Output Receptacles	Hardwire
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave



INPUT		
Rated input current (Maximum Load)	103A (220/380), 99A (230/400), 95A (240/415)	
Nominal Input Voltage(s) Supported	220/380V (3ph wye); 230/400V (3ph wye); 240/415V (3ph wye)	
Nominal Input Voltage Description	3-Phase Wye, 4 wire (L1, L2, L3, N, G); Less than 4% input harmonic distortion (THDi)	
UPS Input Connection Type	Hardwire	
Input Phase	3-Phase	
BATTERY		
Expandable Battery Runtime	Battery set sold separate	
External Battery Pack Compatibility	BP480V103; BP480V140; BP480V55; BP480V78; BP480V200; BP480V300; BP480V400; BP480V500	
Expandable Runtime Description	External battery pack wiring is contractor supplied	
DC System Voltage (VDC)	+/- 240VDC	
Battery Replacement Description	Hot-swappable, replaceable batteries	
Expandable Runtime	Yes	
VOLTAGE REGULATION		
Voltage Regulation Description	Online, double-conversion power conditioning	
Overvoltage Correction	Maintains continuous operation without using battery power during overvoltages to 276-477 (3-phase, 4-wire, wye), reducing output within 1% of nominal	
Undervoltage Correction	Maintains continuous operation without using battery power during brownout/undervoltage conditions to 173-300 (3-phase, 4-wire, wye)	
USER INTERFACE, ALERTS & CON	TROLS	
Switches	ON button turns UPS inverter on. OFF button turns UPS inverter off. LCD Display Control Buttons browse through and select items displayed on LCD screen. EPO (Emergency Power Off) button turns UPS output off and disables Bypass output	
Alarm Cancel Operation	Power-fail alarm can be silenced using alarm-cancel switch	
Audible Alarm	Alarms signal a variety of operational conditions: low-battery, overload, shutdown, bypass and more	
Front Panel LCD	No	
LED Indicators	4-LED Display: Displays normal AC input, on battery power, bypass input and fault conditions	
SURGE / NOISE SUPPRESSION		
EMI / RFI AC Noise Suppression	Yes	
AC Suppression Joule Rating	5960	
AC Suppression Response Time	Instantaneous	
PHYSICAL		





Installation Form Factors Supported with Included Accessories	Tower	
Primary Form Factor	Tower	
UPS Power Module Dimensions (hwd, in.)	66.8 x 20.5 x 38.4	
UPS Power Module Dimensions (hwd, cm)	169.7 x 52.1 x 97.5	
UPS Power Module Weight (lbs.)	703	
UPS Power Module Weight (kg)	319	
UPS Shipping Dimensions (hwd / in.)	76.1 x 28.5 x 48.2	
UPS Shipping Dimensions (hwd / cm)	193.3 x 193.3 x 122.4	
Shipping Weight (lbs.)	907.4	
Shipping Weight (kg)	411.5	
Cooling Method	Fans	
UPS Housing Material	Steel	
ENVIRONMENTAL		
Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius	
Storage Temperature Range	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius	
Relative Humidity	0 to 95%, non-condensing	
AC Mode BTU / Hr. (Full Load)	14016	
COMMUNICATIONS		
Communications Interface	DB9 Serial; Slot for SNMP/Web interface	
PowerAlert Software	Included	
Communications Cable	DB9 cabling included	
LINE / BATTERY TRANSFER		
Transfer Time	No transfer time (0 ms.) in online, double-conversion mode	
Low Voltage Transfer to Battery Power (Setpoint)	Maintains continuous operation without using battery power during brownout/undervoltage conditions to 173-300V AC (3-phase, 4-wire, wye). Below this point, output is maintained utilizing reserve battery power	
High Voltage Transfer to Battery Power (Setpoint)	Maintains continuous operation without using battery power during overvoltages to 276-477V AC (3-phase, 4-wire, wye), reducing output within 1% of nominal. Above this point, output is maintained utilizing reserve battery power	
SPECIAL FEATURES		
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported	
High Availability UPS Features	Automatic inverter bypass; Hot swappable batteries	
Green Energy-Saving Features	High efficiency economy mode operation; Schedulable daily hours of economy mode operation	



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CERTIFICATIONS		
UPS Certifications	CE	
WARRANTY		
Product Warranty Period (International)	2-year limited warranty	
Product Warranty Period (Mexico)	2-year limited warranty	
Product Warranty Period (Puerto Rico)	2-year limited warranty	

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